

What is claimed is:

1. A water base ink for ink-jet recording comprising:
a dispersible coloring agent;
a propylene glycol ether; and
a surfactant composed of a random copolymer represented
by the following general formula (1):



wherein R represents an alkyl group having a number of carbon atoms of 3 to 5, and $m = n = 50$ is satisfied.

2. The water base ink for ink-jet recording according to claim 1, wherein a content ratio by weight of propylene glycol ether/surfactant is 2 to 6.7.

3. The water base ink for ink-jet recording according to claim 1, wherein the propylene glycol ether is dipropylene glycol propyl ether.

4. The water base ink for ink-jet recording according to claim 1, wherein a content of the propylene glycol ether is 2 % by weight to 3 % by weight.

5. The water base ink for ink-jet recording according to claim 1, wherein the surfactant represented by the general formula (1) is contained by 0.1 to 3 % by weight.

6. An ink cartridge comprising the water base ink for ink-jet recording as defined in claim 1.

7. A water base ink for ink-jet recording comprising:
a dispersible coloring agent;
a propylene glycol ether; and
a surfactant composed of a block copolymer represented by the following general formula (2):



wherein m represents an integer of 30 to 36, and n represents an integer of 13 to 24.

8. The water base ink for ink-jet recording according to claim 7, wherein the propylene glycol ether is dipropylene glycol propyl ether.

9. The water base ink for ink-jet recording according to claim 7, wherein a content of the propylene glycol ether is 2 % by weight to 3 % by weight.

10. The water base ink for ink-jet recording according to claim 7, wherein the surfactant represented by the general formula (2) is contained by 0.1 to 3 % by weight.

11. The water base ink for ink-jet recording according

to claim 7, wherein a content ratio by weight of propylene glycol ether/surfactant is 2 to 6.7.

12. An ink cartridge comprising the water base ink for ink-jet recording as defined in claim 7.

13. A water base ink for ink-jet recording comprising:
a dispersible coloring agent;
a propylene glycol ether; and
a surfactant represented by the following general formula (3):



wherein n represents an integer of 2 to 4, R^1 represents an alkyl group having a number of carbon atoms of 12 to 15, and M represents Na or triethanolamine.

14. The water base ink for ink-jet recording according to claim 13, wherein the propylene glycol ether is dipropylene glycol propyl ether.

15. The water base ink for ink-jet recording according to claim 13, wherein a content of the propylene glycol ether is 2 % by weight to 3 % by weight.

16. The water base ink for ink-jet recording according to claim 13, wherein the surfactant represented by the

general formula (3) is contained by 0.1 to 3 % by weight.

17. The water base ink for ink-jet recording according to claim 13, wherein a content ratio by weight of propylene glycol ether/surfactant is 5 to 10.

18. An ink cartridge comprising the water base ink for ink-jet recording as defined in claim 13.

19. An ink-jet printer comprising:

an ink-jet head which has an ink flow passage formed of an Ni alloy and which discharges an ink; and

the ink cartridge as defined in claim 18 which accommodates the ink to be supplied to the ink-jet head.

20. The ink-jet printer according to claim 19, wherein the ink flow passage is formed in a stack composed of sheets formed of an Ni-Fe alloy.